

Title (en)

CIRCUIT ARRANGEMENT FOR IGNITING AND OPERATING A DISCHARGE LAMP

Title (de)

SCHALTUNGSANORDNUNG ZUR ZÜNDUNG UND ZUM BETRIEB EINER ENTLADUNGSLAMPE

Title (fr)

CIRCUITERIE POUR L'ALLUMAGE ET L'UTILISATION D'UNE LAMPE À DÉCHARGE

Publication

EP 2140731 A2 20100106 (DE)

Application

EP 07728427 A 20070424

Priority

EP 2007053971 W 20070424

Abstract (en)

[origin: TW200908800A] This invention relates to a circuit arrangement for igniting and operating a gas-discharge lamp with a half-bridge arrangement, which operates as a low-frequency-setting rectifier; a lamp-reactor (L1) and a resonant capacitor (C1), which form a resonant circuit (17); and a smoothing reactor (L2), which is connected in series to the lamp, where the size of the resonant capacitor is designed, so that during a normal operation of the lamp a voltage ripple of over 100V from maximum to maximum is applied to the resonant capacitor, and the size of the smoothing reactor is designed, so that it can filter mostly the voltage ripple, and a switching frequency is simultaneously between 200 and 500 kHz.

IPC 8 full level

H05B 7/00 (2006.01)

CPC (source: EP US)

H05B 41/2881 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2008128576 A2 20081030; CN 101658067 A 20100224; CN 101658067 B 20120627; EP 2140731 A2 20100106; TW 200908800 A 20090216; US 2010117548 A1 20100513; US 8222828 B2 20120717

DOCDB simple family (application)

EP 2007053971 W 20070424; CN 200780052678 A 20070424; EP 07728427 A 20070424; TW 97114182 A 20080418; US 59699107 A 20070424